

Title (en)

Method and device for encoding a high-dynamic range image

Title (de)

Verfahren und Vorrichtung zur Kodierung eines Bildes mit hohem Dynamikbereich

Title (fr)

Procédé et dispositif de codage d'une image de plage dynamique élevée

Publication

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Application

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Priority

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Abstract (en)

The present invention generally relates to a method and device for encoding an image. The method is characterized in that it comprises: - obtaining (10) a luminance component (L) and each colour component (C (i)) of the image, said components belonging to a perceptual space having a metric whose values are a function of the differences between the visual perceptions of two points of said perceptual space, and a perceptual threshold (# E) defining an upper bound of the said metric and enabling a control of the visual losses in a displayed decoded version of the image; - quantifying (11) the luminance component (L) of the image; - transforming (12) each colour component (C (i)) of the image according to a transform (T) which depends on the perceptual threshold (# E); - quantifying (13) each transformed colour component (C(i) T) of the image in order that a metric which is calculated between the image and a decoded version of the image, stays below the perceptual threshold (# E); and - encoding (14) each component of the image L Q , C # c i Q T . The invention relates also a method and device for decoding a bitstream representing a luminance component and at least one transformed colour component of an image.

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

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Designated contracting state (EPC)

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